# Louisiana Regional HIV/AIDS Surveillance Report

Characteristics and Trends of Reported HIV and AIDS Cases

2001



# **Region VII: Shreveport Region**

HIV/AIDS Surveillance
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# **Regional Epidemiologic Profile**

Region VII: Shreveport Region

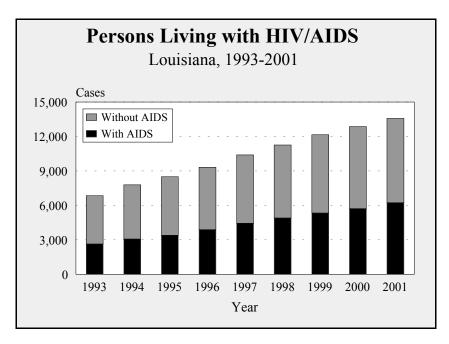
This profile summarizes the status of the HIV/AIDS epidemic in the Shreveport region for cases diagnosed through 2001 and reported through May, 2002. Please refer to the technical notes (page 16) for information on the interpretation of HIV data.

The following are highlights of this year's report for Region VII:

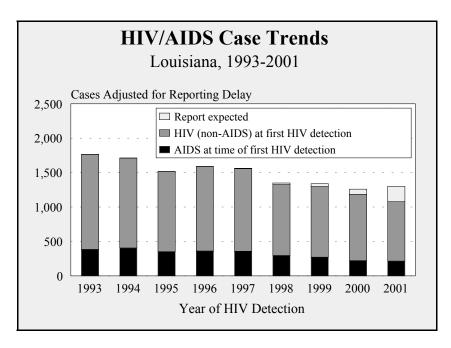
- In 2001, the Shreveport region ranked 6th in HIV/AIDS case rates in the state (15 cases out of every 100,000 persons).
- Through 2001, the cumulative number of persons detected and reported with HIV infection was 1,285 in Region VII. Also through 2001, 829 persons have been diagnosed with AIDS in Region VII. In 2001 alone, 76 new cases of HIV infection were detected and 56 new AIDS cases were diagnosed.
- By the end of 2001, there were 931 persons living with HIV/AIDS in Region VII. The number of persons living with HIV/AIDS continues to increase each year.
- From 2000 to 2001, there was an increase in the number of deaths among persons diagnosed with AIDS in Region VII.
- In 2001, 68% of the newly-diagnosed HIV/AIDS cases in the region were African-American. Consistent with all 9 regions in the state, African-American men have the highest HIV/AIDS rate in the Shreveport region. Twenty-seven out of every 100,000 African-American men in Region VII were diagnosed with HIV/AIDS in 2001.
- Women continue to represent an increasing proportion of newly-diagnosed HIV/AIDS cases statewide. In 2001, the proportion of women newly-diagnosed with HIV/AIDS in the Shreveport region was 28%, compared to 25% in 2000.
- Although the number of new HIV/AIDS cases attributed to men who have sex with men (MSM) has been decreasing throughout the state, the epidemic in MSM remains the largest of all transmission groups in Louisiana. Statewide in 2001, 43% of all cases with a specified risk for exposure were attributed to MSM exposure; in the Shreveport region 51% of all HIV/AIDS cases, for which a risk was specified, occurred among MSM. High-risk heterosexual contact accounted for 34% of the newly-diagnosed cases in 2001.
- Statewide, 151 HIV-infected women gave birth in 2001, 19 of these women resided in Regions VI, VII, and VIII. In 2001, 94% of HIV-infected pregnant women received AZT in Regions VI, VII, and VIII, which is the same as the percent of HIV-infected women who received AZT statewide.

As the HIV/AIDS epidemic continues in persons at high risk and expands in persons who may not recognize their risk (e.g. women, sexual partners of persons at high risk), health care providers can play an important role in preventing HIV/AIDS. Physicians, nurses, and other health care workers should talk to every patient about his/her sexual behavior and recommend specific steps to decrease risky behavior, including reducing the number of sexual partners and using condoms routinely. As AIDS is still an incurable disease, the few minutes spent in this counseling can save more lives than all medical interventions that are available.

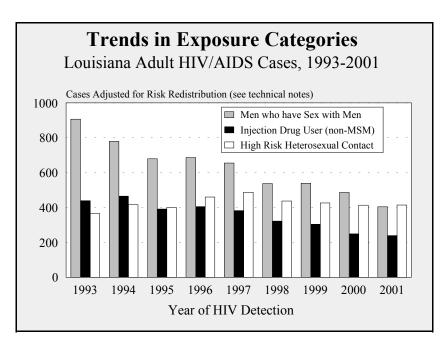
Public Health Regions						
Region	<u>Area</u>	<u>Parishes</u>				
I	New Orleans	Jefferson, Orleans, Plaquemines, St. Bernard				
II	Baton Rouge	Ascension, East Baton Rouge, East Feliciana, Iberville, Ponte Coupee, West Baton Rouge, West Feliciana				
III Houma		Assumption, Lafourche, St. Charles, St. James, St. John the Baptist, St. Mary, Terrebone				
IV Lafayette		Acadia, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, Vermillion				
V Lake Charles		Allen, Beauregard, Calcasieu, Cameron, Jefferson Davis				
VI Alexandria		Avoyelles, Catahoula, Concordia, Grant, La Salle, Rapides, Vernon, Winn				
VII	Shreveport	Bienville, Bossier, Caddo, Claiborne, De Soto, Natchitoches, Red River, Sabine, Webster				
VIII	Monroe	Caldwell, East Carroll, Franklin, Jackson, Lincoln, Madison, Morehouse, Ouachita,				
IX	Hammond/Slidell	Richland, Tensas, Union, West Carroll Livingston, St. Helena, St. Tammany, Tangipahoa, Washington				



• The number of persons living with HIV continues to increase each year. At the end of 2001, 13,565 persons were known to be living with HIV/AIDS in Louisiana, of whom 6,236 (46%) had progressed to AIDS. This trend is largely due to the introduction of effective drug treatment and therapies, which delay the progression from HIV to AIDS and AIDS to death.



- In 2001, 1,078 new HIV/AIDS cases were detected statewide. Since 1993, the number of newly-detected HIV/AIDS cases has decreased by over a third, from 1,766 cases detected in 1993 to 1,078 cases detected in 2001.
- Of the newly detected cases in 2001, 22% were diagnosed with AIDS at the time of first HIV-detection.



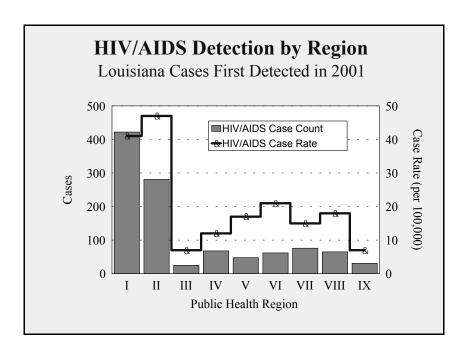
- The largest proportion of cases detected in 2001 (38%) were attributed to heterosexual contact, after adjusting for unreported risk.
- Cases among MSM, including MSM/IDU accounted for 37% of all cases detected in 2001; however nearly half of all persons living with HIV in Louisiana (48%) may have been exposed to the virus through male-male sexual contact.

Louisiana HIV/AIDS Cases and Case Rates by Parish									
	AIDS	HIV/AIDS		Cum		AIDS	HIV /AIDS	HIV/AIDS	Cum
		Detected in	Detection	HIV/AIDS			Detected in	Detection	HIV/AIDS
PARISH	2001	2001	Rate, 2001 <sup>b</sup>	Cases <sup>c</sup>	PARISH	2001	2001	Rate, 2001 <sup>b</sup>	Cases <sup>c</sup>
Statewide	858	1,078	24	21,584	Region VI	35	62	21	881
					Avoyelles	6	10	24	193
Region I	343	422	41	10,604	Catahoula	2	4	n/a	22
Jefferson	68	93	20	1,844	Concordia	2	3	n/a	43
Orleans	271	321	66	8,563	Grant	3	6	32	30
Plaquemines	0	2	n/a	42	La Salle	0	1	n/a	7
St. Bernard	4	6	9	155	Rapides	17	33	26	444
					Vernon	2	3	n/a	72
Region II	237	281	47	4,228	Winn	3	2	n/a	70
Ascension	9	14	18	148					
East Baton Rouge	185	230	56	3,371	Region VII	56	76	15	1,285
East Feliciana	10	9	42	117	Bienville	0	2	n/a	18
Iberville	14	15	45	231	Bossier	6	6	6	132
Pointe Coupee	5	3	n/a	59	Caddo	34	53	21	885
West Baton Rouge	4	6	28	115	Claiborne	6	2	n/a	58
West Feliciana	10	4	n/a	187	De Soto	4	6	24	34
					Natchitoches	2	4	n/a	80
Region III	27	25	7	644	Red River	0	0	n/a	9
Assumption	0	0	n/a	29	Sabine	1	1	n/a	23
LaFourche	4	3	n/a	101	Webster	3	2	n/a	46
St. Charles	2	2	n/a	92					
St. James	3	0	n/a	57	Region VIII	51	65	18	946
St. John the Baptist	2	3	n/a	84	Caldwell	1	1	n/a	16
St. Mary	3	4	n/a	94	East Carroll	5	9	96	36
Terrebone	13	13	12	187	Franklin	0	0	n/a	22
					Jackson	1	0	n/a	16
Region IV	49	68	12	1,281	Lincoln	1	1	n/a	67
Acadia	8	9	15	104	Madison	4	7	51	63
Evangeline	3	4	n/a	46	Morehouse	3	1	n/a	60
Iberia	6	9	12	109	Ouachita	30	35	24	534
Lafayette	14	20	10	639	Richland	4	7	33	52
St. Landry	14	14	16	211	Tensas	1	2	n/a	29
St. Martin	2	8	16	87	Union	1	0	n/a	33
Vermilion	2	4	n/a	85	West Carroll	0	2	n/a	18
Region V	34	48	17	859	Region IX	26	31	7	856
Allen	4	2	n/a	141	Livingston	4	7	8	123
Beauregard	3	3	n/a	60	St. Helena	0	0	n/a	10
Calcasieu	23	39	21	595	St. Tammany	9	10	5	353
Cameron	1	1	n/a	8	Tangipahoa	6	10	10	190
Jefferson Davis	3	3	n/a	55	Washington	7	4	n/a	180

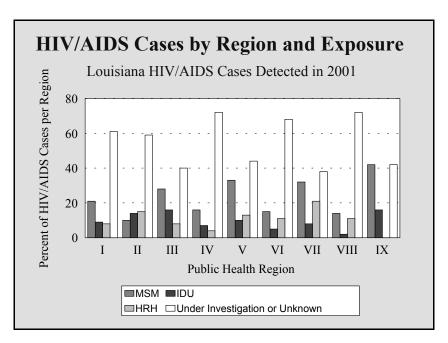
Jefferson Davis 3 3 n/a 55 Washington 7 4 n/a 180 a DX—Diagnosed with AIDS. AIDS diagnoses will be included in counts of HIV/AIDS detection (2nd column) for persons first detected with HIV at an AIDS diagnosis; therefore numbers from the two columns should not be added.

<sup>&</sup>lt;sup>b</sup> Rates per 100,000 persons in parish. Rates are unstable and not available (n/a) for parishes with low case counts.

<sup>&</sup>lt;sup>c</sup> Cumulative HIV/AIDS may be interpreted as minimum number of cases reported in parish.



• The New Orleans region had the highest number of HIV/AIDS cases detected in 2001. However, in 2001 as in past years, the Baton Rouge region surpassed the New Orleans region in HIV/AIDS detection rates (number of cases per population in the region). The Shreveport region had the 6th highest rate and 3rd highest number of newly-detected cases in 2001.



• In Region VII, which is similar to every region of the state except the Baton Rouge region, the largest proportion of newly-detected cases in 2001, with an identified exposure, were attributed to MSM exposure. In the Baton Rouge region, both injection drug use and high-risk heterosexual contact accounted for larger percentages of the newly-detected cases than did male-male sexual contact.

# **REGION VII, HIV DATA**

Characteristics of HIV-Infected Persons (HIV/AIDS) <sup>a</sup> Region VII: Shreveport Region							
	N	Persons with	h HIV/AIDS eted in 2001	Kegion	Persons Living with HIV/AIDS		
	(HIV/AIDS) 2001 throug persons may time HIV wo does not refunew cases of	nns reflect person whose positive th confidential to have been dia as first detected lect new cases of HIV detection	e status was fitesting. Some gnosed with lift therefore, the of HIV infect	irst detected in e of these AIDS at the his column ion but rather	This column reflects the minimum number of persons living with HIV/AIDS by the end of 2001. This column includes persons living with AIDS.		
		rewide Percent b	Casas		on VII	Damaan4 b	
TOTAL	Cases		Cases	Percent b	Cases	Percent b	
TOTAL Gender	1,078	100%	76	100%	931	100%	
Men	689	64%	55	72%	716	77%	
Women	389	36%	21	28%	215	23%	
Ethnicity							
African-American	796	74%	52	68%	578	62%	
White	243	23%	23	30%	339	36%	
Other	33	3%	0	0%	12	1%	
Unknown	6	1%	1	1%	2	<1%	
Age Group Age at HIV Detection			Age at HIV	<b>Detection</b>	Age at End of 2001		
Under 13	10	1%	1	1%	12	1%	
13-24	219	20%	16	21%	65	7%	
25-34	285	26%	22	29%	246	26%	
35-44	316	29%	19	25%	378	41%	
Over 44	248	23%	18	24%	230	25%	
Exposure Group <sup>c</sup>							
$MSM^d$	189	43%	24	51%	326	45%	
$\mathrm{IDU^d}$	107	24%	6	13%	115	16%	
MSM and IDU	14	3%	0	0%	99	14%	
HRH <sup>d</sup>	121	27%	16	34%	160	22%	
Trans/Hemo	2	1%	0	0%	14	2%	
Perinatal	10	2%		2%	13	2%	
Unspecified <sup>e</sup>	635	59%	29	38%	204	22%	
Urban/Rural Parishes							
Urban	929	86%	61	80%	753	81%	
Rural	149	14%	15	20%	178	19%	
<sup>a</sup> HIV data collection started in 1993. Positive results of anonymous tests are not included due to the likelihood of repeated tests.							

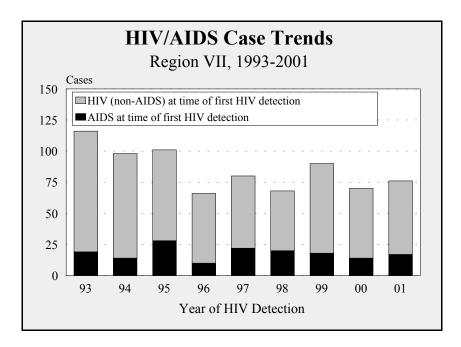
<sup>&</sup>lt;sup>b</sup> Percentages might not add up to 100% due to missing values and rounding errors.

<sup>&</sup>lt;sup>c</sup>Percents for identified exposure groups represent the distribution among those with a specified exposure.

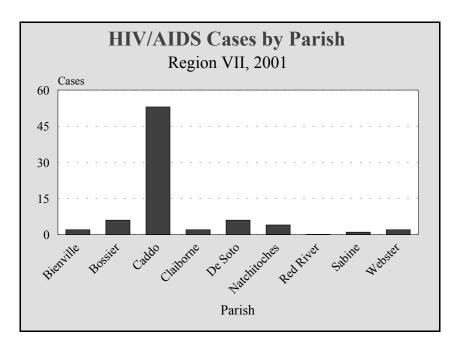
<sup>&</sup>lt;sup>d</sup> MSM: Men who have Sex with Men (non-IDU); IDU: Injection Drug Users; HRH: High-Risk Heterosexual.

<sup>&</sup>lt;sup>e</sup>Unspecified Exposure refers to cases whose exposure group is under investigation or unknown.

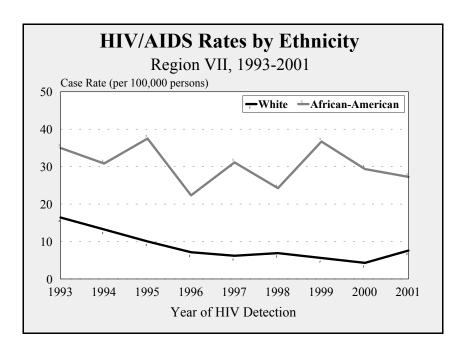
## **REGION VII, HIV DATA**



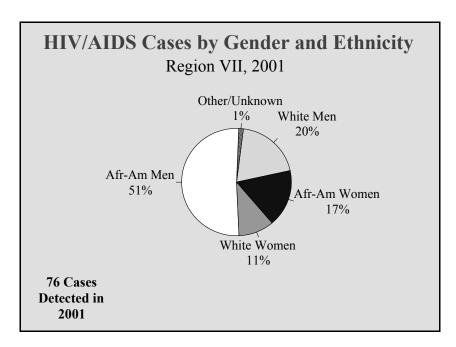
• From 2000 to 2001, the number of newly-detected cases in Region VII increased slightly. Of the persons who were detected with HIV in Region VII in 2001, 22% were diagnosed with AIDS at the time of first HIV detection.



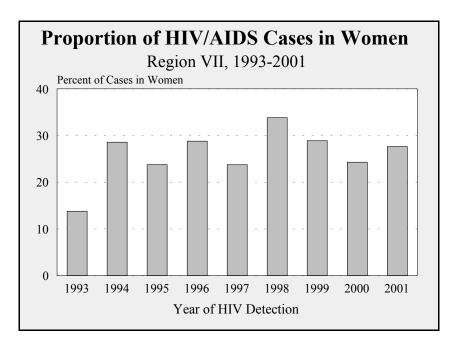
• Caddo parish had the highest number of newly-detected cases in 2001. Fifty-three of the 76 cases detected in Region VII in 2001 were detected among persons living in Caddo parish.



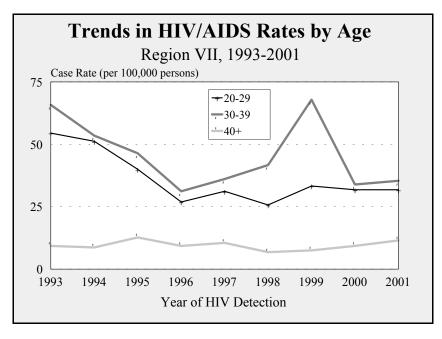
• From 1993 to 2001 rates in African-Americans were consistently higher than rates in whites. Year-to-year differences should be interpreted with caution due to small sample sizes.



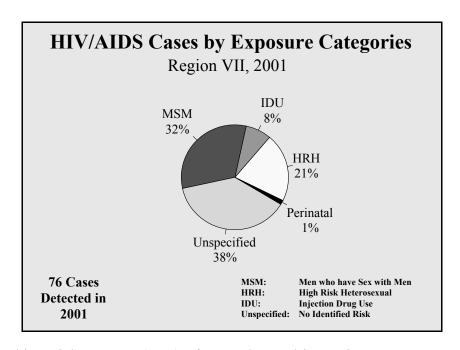
• Fifty-one percent (51%) of newly-detected cases in 2001 were among African-American men, while 20% were among white men.



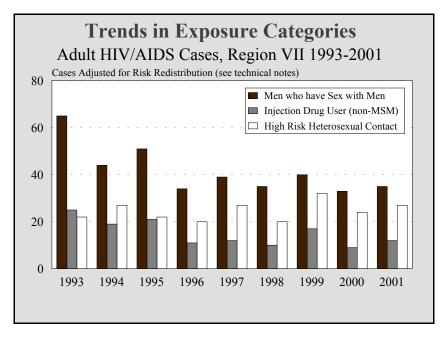
• From 2000 to 2001, there was an increase in the percent of new cases among women in Region VII. Twenty-eight percent (28%) of newly-detected cases in 2001, in Region VII, were among women compared to 24% in 2000. Statewide in 2001, 36% of newly-detected cases were among women.



• Persons 30 to 39 years of age had the highest rates of newly-detected cases. From 2000 to 2001, the detection rate among all age groups remained relatively stable.



• In 2001, thirty-eight percent (38%) of cases detected in Region VII were reported without any mode of exposure. Statewide in 2001, 59% of newly-detected cases were reported without any mode of exposure.



• After adjusting for unreported risk, the largest proportion of cases detected in 2001 (47%), in Region VII, were attributed to men who have sex with men.

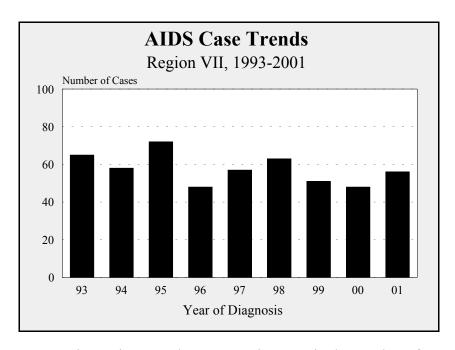
# **REGION VII, AIDS DATA**

Characteristics of AIDS Cases									
	Region VII: Shreveport Region								
	The state of the s	agnosed in 2001	Cumulative AIDS Cases						
	<u>Cases</u>	Percent <sup>a</sup>	<u>Cases</u>	Percent <sup>a</sup>					
TOTAL	56	100%	829	100%					
Gender									
Men	45	80%	682	82%					
Women	11	20%	147	18%					
Age Group									
Under 13	0	0%	16	2%					
13-24	7	12%	69	8%					
25-34	22	39%	331	40%					
35-44	17	30%	265	32%					
45+	10	18%	148	18%					
Ethnicity <sup>b</sup>									
African-American	41	73%	496	60%					
White	15	27%	324	39%					
Hispanic	0	0%	7	1%					
Other	0	0%	2	<1%					
Ethnicity <sup>b</sup> and Gender									
Af-Am Men	32	57%	376	45%					
White Men	13	23%	297	36%					
Hispanic Men	0	0%	7	1%					
Other Men	0	0%	2	<1%					
Af-Am Women	9	16%	120	14%					
White Women	2	4%	27	3%					
Hispanic Women	$\stackrel{\scriptstyle 2}{0}$	0%	0	0%					
Other Women	0	0%	0	0%					
Exposure Category <sup>c</sup>	U	0 / 0	U	070					
MSM	17	46%	347	48%					
IDU	7	19%	112	16%					
MSM and IDU	2	5%	85	12%					
HRH	9	24%	118	16%					
Trans/Hemo	2	5%	38	5%					
Perinatal	0	0%							
	19		16	2%					
Unspecified Urban/Rural Parishes	19	34%	113	14%					
	<i>A</i> 1	760/	677	020/					
Urban	41	76%	677	82%					
Rural	13	24%	150	18%					
Facility Type	41	730/	570	700/					
Public	41	73%	578	70%					
Private  a Percentages might not add up to	15	27%	250	30%					

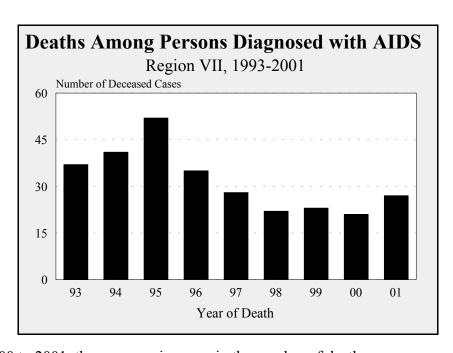
<sup>&</sup>lt;sup>a</sup> Percentages might not add up to 100% due to missing values and rounding errors.

<sup>&</sup>lt;sup>b</sup> Cases and rates by ethnicity do not include cases whose race/ethnicity is unknown.

<sup>&</sup>lt;sup>c</sup> MSM = Men who have Sex with Men; IDU = Injection Drug User; HRH = High-Risk Heterosexual; Unspecified = Still under investigation or unknown. See technical notes for further explanation.

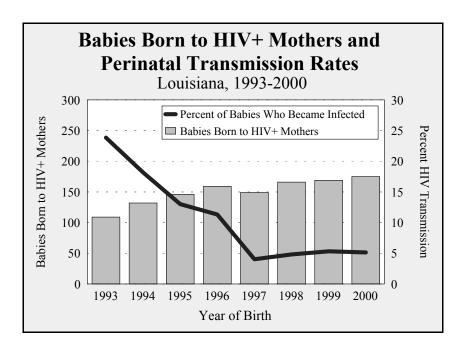


• From 2000 to 2001, in Region VII, there was an increase in the number of new AIDS cases.

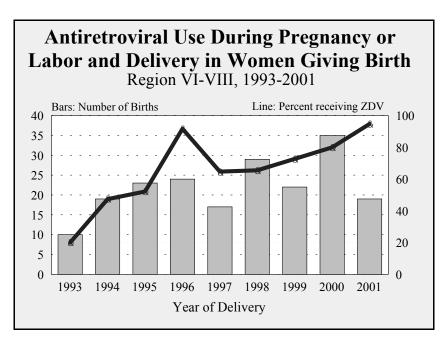


 From 2000 to 2001, there was an increase in the number of deaths among persons diagnosed with AIDS in Region VII. Deaths among persons diagnosed with AIDS in Region VII represent 8% of AIDS-related deaths statewide.

## **REGION VII, PERINATAL DATA**



Perinatal transmission rates dropped dramatically from 1993 to 1997 with the introduction
and widespread use of antiretrovirals during pregnancy, labor and delivery, and to the baby
after birth. In recent years, the perinatal transmission rates have remained fairly stable.
However, the number of HIV-infected babies will continue to increase as the number of
babies born to HIV-infected mothers rises due to growing numbers of women living with
HIV



As of May 2002, 151 HIV-infected women were reported to have given birth in 2001 statewide; 19 of these women resided in Regions VI, VII and VIII. In 2001, ninety-four percent (94%) of HIV-infected pregnant women received AZT in Regions VI, VII, and VIII, which is the same as the percent of HIV-infected women who received AZT statewide.

### **TECHNICAL NOTES**

### **Interpretation of HIV Detection Data**

Because antiretroviral treatment regimens are initiated earlier in the course of HIV infection than previous treatments, effective therapies postpone and/or prevent the onset of AIDS, resulting in a decrease in AIDS incidence. Consequently, recent incident AIDS data can no longer provide the basis of HIV transmission estimates and trends, and the dissemination of surveillance data has moved toward placing heavier emphasis on the representation of HIV-positive persons. Throughout this report, all AIDS data are depicted by characteristics at year of AIDS diagnosis under the 1993 AIDS case definition, whereas HIV data are characterized at year of HIV detection (earliest positive test reported to the health department).

HIV detection data are not without limitations. Although HIV detection is usually closer in time to HIV infection than is an AIDS diagnosis, data represented by the time of HIV detection must be interpreted with caution. Unlike AIDS data where the date of diagnosis is relatively precise for monitoring AIDS incidence, HIV detection trends do not accurately depict HIV transmission trends. This is because HIV detection data represent cases who were reported after a positive result from a confidential HIV test, which may first occur several years after HIV infection. In addition, the data are under detected and under reported because only persons with HIV who choose to be tested confidentially are counted. HIV detection counts do not include persons who have not been tested for HIV and persons who only have been tested anonymously.

Therefore, HIV detection data do not necessarily represent characteristics of persons who have been recently infected with HIV, nor do they provide true HIV incidence. Demographic and geographic subpopulations are disproportionately sensitive to differences and changes in access to health care, HIV testing patterns, and targeted prevention programs and services. All of these issues must be carefully considered when interpreting HIV data.

#### **Definitions of the Exposure Categories**

For the purposes of this report, HIV/AIDS cases are classified into one of several hierarchical exposure (risk) categories, based on information collected. Persons with more than one reported mode of exposure to HIV are assigned to the category listed first in the hierarchy. Definitions are as follows:

- Men who have Sex with Men (MSM): Cases include men who report sexual contact with other men, i.e. homosexual contact or bisexual contact.
- **Injection Drug User (IDU)**: Cases who report using drugs that require injection not other route of administration of illicit drug use at any time since 1978.
- **High-Risk Heterosexual Contact (HRH)**: Cases who report specific heterosexual contact with a person who has HIV or is at increased risk for HIV infection, e.g. heterosexual contact with a homosexual or bisexual man, heterosexual contact with an injection drug user, or heterosexual contact with a person known to be HIV-infected.
- **Hemophilia/Transfusion/Transplant** (**Hemo/Transf**): Cases who report receiving a transfusion of blood or blood products prior to 1985.
- **Perinatal**: HIV infection in children resulting from transmission from an HIV+ mother to her child.

• Unspecified: Cases who, at the time of this publication, have no reported history of exposure to HIV through any of the routes listed in the hierarchy of exposure categories. These cases represent logistical issues of surveillance and do <u>not</u> imply that modes of transmission other than sexual, blood, and perinatal are suspected. "Unspecified" cases include: persons for which the surveillance protocols to document the risk behavior information have not yet been completed and are still under investigation; persons whose exposure history is incomplete because they have died, declined risk disclosure, or were lost to follow-up; persons who deny any risk behavior; and persons who do not know the HIV infection status or risk behaviors of their sexual partners.

#### **Case Definition Changes**

The CDC AIDS case definition has changed over time based on knowledge of HIV disease and physician practice patterns. The original definition was modified in 1985<sup>1</sup>. The 1987 definition<sup>2</sup> revisions incorporated a broader range of AIDS opportunistic infections and conditions and used HIV diagnostic tests to improve the sensitivity and specificity of the definition. In 1993, the definition was expanded<sup>3</sup> to include HIV-infected individuals with pulmonary tuberculosis, recurrent pneumonia, invasive cervical cancer, or CD4 T-lymphocyte counts of less than 200 cells per ml or a CD4<sup>+</sup> percentage of less than 14. A result of the 1993 definition expansion caused HIV-infected persons to be classified as AIDS earlier in their course of disease than under the previous definition. Regardless of the year, AIDS data are tabulated in this report by the date of the first AIDS defining condition in an individual under the 1993 case definition.

The case definition for HIV infection was revised in 1999<sup>4</sup> to include positive results or reports of detectable quantities of HIV virologic (nonantibody) tests. The revisions to the 1993 surveillance definition of HIV include additional laboratory evidence, specifically detectable quantities from virologic tests. The perinatal case definition for infection and seroreversion among children less than 18 months of age who are perinatally exposed to HIV has been changed to incorporate the recent clinical guidelines and the sensitivity and specificity of current HIV diagnostic tests in order to more efficiently classify HIV-exposed children as infected or non-infected.

#### **Adjustment and Estimation Techniques**

The period of time between when a case is diagnosed and when it is reported (reporting delay) causes distortions in trends for recently diagnosed cases. Reporting delays were estimated using a maximum likelihood procedure, taking into account possible differences in reporting delays among exposure, geographic, ethnic, age, and gender categories. The estimated number of cases that will be reported are presented as "expected" cases. Adjustment programming was developed by CDC (HIV/AIDS Surveillance Report, 1994; 6(2): 37-38).

Recently reported cases, especially HIV (non-AIDS) cases, are more likely to be reported without a specified risk (exposure), thereby causing a distorting decrease among trends in exposure categories. Thus, proportions and graphic representation of trends among risk groups use estimated cases based on risk redistribution. This redistribution is based on preliminary national sex-and race- specific exposure classification distributions of previously unspecified HIV cases in the southern states. These redistribution parameters are similar to those based on national AIDS cases diagnosed prior to 1993 as well as those based on the distribution of specified cases in Louisiana.

<sup>&</sup>lt;sup>1</sup> MMWR 1985; 34: 373-75.

<sup>&</sup>lt;sup>2</sup> MMWR 1987; 36 [Supp no.1S]: 1S-15S.

<sup>&</sup>lt;sup>3</sup> MMWR 1992; 41[RR-17]: 1-19.

<sup>&</sup>lt;sup>4</sup> CDC 1999; 48[RR13]; 1-27.